BRUHAT BENGALURU MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Improvements to Roads and Drains at Kempegowdanagara Road and Surrounding areas in Ward No. 13, (Doddabommasandra).

Estimated Cost : Rs. 25.00 Lakhs

Head of Account : P-3726 Zonal Public Works - POW Works

Job Code: 013-23-000006

Name of Agency: Sri. D.A Ravindra, No. 1265, HIG Mother Dairy Road, near Karnataka Bank, Yelahanka New Town, Bengaluru - 560064.

Work order No: BMP/EE/BTP/WO/139/2022-23 D: 03-03-2023.

Measurements Recarded on : 10-07-2023

Sl No	Description of work	Mesurement No.	L	B1	B2	Av.B	D	Qty.	Unit	Rate	Amount
1	Removing and resetting of footpath slab (Approved arrival rate)										
	Qty as per Premeasurement vide E-Bill Page No. 01 to 02 is =							324.00	Sqm	185.70	60167.00
2	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.										
	Qty as per Premeasurement vide E-Bill Page No. 03 is =							91.12	Cum	161.60	14725.00
3	Providing and Fixing pre cast Covering Slab 100 mm thick made out of CC 1:2:4 and jelly 20mm Down size with steel reinforcement including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete. As per Engineer incharge								Sqm		
	CC Drain Missing Covering Slab										
	E/S	5	0.60			0.90		2.70			
		2	0.60			0.90		1.08			
		12	0.60			0.90		6.48			
		15	0.60			0.90		8.10			
		6	0.60			0.90		3.24			
		8	0.60			0.90		4.32			
	W/S										
		12	0.60			0.90		6.48			
		6	0.60			0.90		3.24			
		8	0.60			0.90		4.32			
		10	0.60			0.90		5.40			
		8	0.60			0.90		4.32			
		9	0.60			0.90		4.86			
			Total Qty =					54.54			

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Sl No	Description of work	Mesurement						Qty.	Unit	Rate	Amount
		No.	L	B1	B2	Av.B	D				
	Total		Qty LTD to Approved Qty =					54.00	Sqm	1636.90	88393.00

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	Measurements Recarded on :	10-01-2023									
4	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separately										
	Qty as per Premeasurement vide E-Bill Page No. 04 is =							202.50	Cum	366.70	74257.00
5	Construction of Dry Lean Cement Concrete Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm,aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ m3 , optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 t vibratory roller, finishing and curing.										
	Qty as per Premeasurement vide E-Bill Page No. 05 is =							151.88	Cum	3497.70	531231.00
6	Providing and constructing un-reinforced plain Cement Concrete Pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS: 383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, primer, sealant, curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete MORTH Specification No.1501 . as per the directions of the Engineer-in-charge of the work.										
	CC Road										
	Kemgegowdanagara										
	From Cross Road to Telecom Layout Main Road	1	15.00	5.25	5.00	5.13	0.15	11.53			
		1	15.00	5.00	5.05	5.03	0.15	11.31			
		1	15.00	5.05	4.85	4.95	0.15	11.14			
		1	15.00	4.85	5.00	4.93	0.15	11.08			
		1	15.00	5.00	5.50	5.25	0.15	11.81			
		1	15.00	5.50	4.95	5.23	0.15	11.76			
		1	15.00	4.95	4.70	4.83	0.15	10.86			
		1	15.00	4.70	4.95	4.83	0.15	10.86			
		1	15.00	4.95	4.70	4.83	0.15	10.86			
		1	15.00	4.70	4.90	4.80	0.15	10.80			
		1	15.00	4.90	4.40	4.65	0.15	10.46			

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SI No	Description of work	Mesurement						Qty.	Unit	Rate	Amount
		No.	L	B1	B2	Av.B	D				
		1	15.00	4.40	4.60	4.50	0.15	10.13			
		1	15.00	4.60	4.20	4.40	0.15	9.90			
		1	15.00	4.20	4.35	4.28	0.15	9.62			
		1	15.00	4.35	4.65	4.50	0.15	10.13			
		1	5.50	4.65	3.90	4.28	0.15	3.53			
			Total Qty =					**165.75**			
	Total		Qty LTD to Approved Qty =					**151.88**	Cum	5658.90	**859474.00**
7	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum. (Tipper 14 m3)								Cum		
	Qty Vide 85% of Item No- (2+4)							249.58			
	Total							**249.58**		64.30	**16048.00**
8	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km								T.Km		
	Qty frm Item No-07		249.58			1.28		319.45			
	Total							**319.45**		91.20	**29134.00**
										Grand Total	**1673429.00**
										GST Charges (18% of estimated cost)	**301217.00**
										Total Amount	**1974646.00**

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